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[54] **METHOD OF THREE-DIMENSIONAL DISPLAY OF OBJECT-ORIENTED FIGURE INFORMATION AND SYSTEM THEREOF**

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[52] **U.S. Cl.** **395/141**

[58] **Field of Search** 395/133, 140, 395/135, 155, 161, 141; 345/113, 114, 117

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[57] **ABSTRACT**

In a system for displaying map information, an object base storage unit stores an object base relating to relational objects, a map data base storage unit stores a map data base relating to figure elements of map data, and an attribute data base storage unit stores an attribute data base relating to attribute data related to the figure elements of the map data. In response to an input command, a head one of the relational objects is retrieved from the object base, and entity objects are desired from a head relational object by referring to the object base, so that each of the desired entity objects is processed. The map data retrieving section retrieves the map data from the map data base in response to the processing of each map data entity object of the derived entity objects, and the attribute data retrieving section retrieves the attribute data from the attribute data base in response to the execution of each of attribute data entity objects of the derived entity objects. The converting section converts the map data and attribute data into three-dimensional display data and the display data is three-dimensionally displayed on the display unit. In this case, predetermined height data for the attribute of each figure element of the map data is stored in a table in advance. The height data is obtained by referring to the table in accordance with the attribute data, and the map data is converted into three-dimensional map data based on the obtained height data.

30 Claims, 12 Drawing Sheets